



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

MM71/0611

PASCAL & ASSOCIATES  
P O BOX 11121 STATION H  
NEPEAN ON K2H 7T8  
CANADA

AIR MAIL

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
087902,299	07/29/97	013	SHERRY, M 2836	06/11/99
First Named Applicant	MICHAEL T. 35 USC 154(b) term ext. = 0 Days.			

TITLE OF INVENTION GROUND FAULT DETECTOR FOR GAS DISCHARGE TUBING

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
Z 577P01US	361-042.000	U32	UTILITY	YES	\$615.00	09/13/99

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Notice of Allowability

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/902,299 07/29/97 MIGNALLI 577P0105  
A claim for a patent is allowable, PROSECUTION ON THE MERITS IS (OR) REMAINS IN GOOD STANDING, AND THE INVENTOR(S) IS (ARE) ENTITLED TO A PATENT. A NOTICE OF ALLOWABILITY AND ISSUE FEE DUE IS BEING ISSUED. THE INVENTOR(S) MUST FILE A RESPONSE TO THIS NOTICE OF ALLOWABILITY WITHIN THE SPECIFIED TIME PERIOD.

MM71/0611

EXAMINER

SHERRY, M

PASCAL & ASSOCIATES  
P O BOX 11121 STATION H  
NEPEAN ON K2H 7T8  
CANADA  
AIR MAIL

ART UNIT

PAPER NUMBER

2836

DATE MAILED:

06/11/99

Please find below and/or attached an Office communication concerning this application or proceeding.

THREE REASONS FOR THE "DATE MAILED" OF THIS OFFICE ACTION ARE: 1. THE REQUIREMENTS NOTED ABOVE HAVE BEEN FULLY SATISFIED; 2. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION; 3. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION. Commissioner of Patents and Trademarks

ATTACHED INFORMATION AND REASONS OF TIME MAY BE OBTAINED FROM THE FOLLOWING SOURCES: 1. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION; 2. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION; 3. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION.

1. ATTACHED INFORMATION AND REASONS OF TIME MAY BE OBTAINED FROM THE FOLLOWING SOURCES: 1. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION; 2. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION; 3. THE "DATE MAILED" OF THIS OFFICE ACTION IS THE DATE OF THE "DATE MAILED" OF THIS OFFICE ACTION.

2. Because the originally filed drawings were declared by applicant to be informal

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, which has been approved by the examiner.

3. Including changes required by the proposed drawing correction filed on May 24, 1999 which has been approved by the examiner.

4. Including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

X Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s) \_\_\_\_\_

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

Interview Summary, PTO-413

Examiner's Amendment/Comment

Examiner's Comment Regarding Requirement for Deposit of Biological Material

X Examiner's Statement of Reasons for Allowance

# Notice of Allowability

Application No.  
**08/902,299**

Applicant(s)  
**Mignault**

Examiner  
**Michael Sherry**

Group Art Unit  
**2836**



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to amendment filed 5/24/99

☒ The allowed claim(s) is/are 1-13

☐ The drawings filed on \_\_\_\_\_ are acceptable.

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☒ Applicant MUST submit NEW FORMAL DRAWINGS

☒ because the originally filed drawings were declared by applicant to be informal.

☐ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_

☒ including changes required by the proposed drawing correction filed on May 24, 1999, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

*Michael Sherry*  
6/10/99

Art Unit: 2836

1. The following is an examiner's statement of reasons for allowance:

Claim 1 recites, inter alia, a ground fault circuit, comprising a circuit connected to the high voltage secondary winding of a transformer for detecting leakage current from the transformer to ground, for short circuiting an AC component of the leakage current passing through the detector to ground, and for deriving a D.C. voltage from D.C. leakage current from the transformer to ground, and a circuit for applying the derived D.C. voltage to the control input of the shutdown control circuit, whereby the power supply may be shut down in the presence of leakage current in excess of the trigger voltage which is derived exclusively from D.C. current leakage from the transformer to ground.

Claim 12 recites, inter alia, a method of shutting down a power supply which drives a transformer having a center-tapped high voltage secondary winding, comprising short circuiting A.C. leakage current that may flow between the secondary winding and ground, detecting D.C. voltage caused by D.C. leakage current which may be conducted between the D.C. biased secondary winding and ground, applying the D.C. voltage to the control input of a switch, and controlling shut-down of the power supply by means of the switch.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include either of the above limitations.

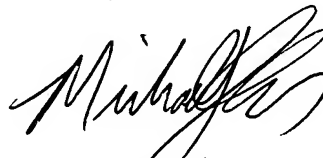
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2836

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Sherry whose telephone number is (703)308-1680.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist of the Technology Center whose telephone number is (703) 308-1782. The facsimile numbers for Technology Center 2800 are (703) 305-3432 and (703) 305-3431.



Michael J. Sherry

MJS

June 10, 1999